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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/918,380	07/30/2001	Indra Laksono	VIXS.0100090	9961	
29331 7	7590 09/21/2006		EXAM	EXAMINER	
	EWMAN ABEL POL	DIEP, NHO	DIEP, NHON THANH		
5914 WEST COURTYARD DRIVE SUITE 200			ART UNIT	PAPER NUMBER	
AUSTIN, TX	₹ 78730		2621		
			D. W. L. L. L. C. C. C. L. C. C.	DATE MAILED: 00/21/2007	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		09/918,380	LAKSONO ET AI	LAKSONO ET AL.			
		Examiner	Art Unit				
		Nhon T. Diep	2621				
Period fe	The MAILING DATE of this communication aportion or Reply	ppears on the cover sheet wi	th the correspondence a	ddress			
WHIC - Exte after - If NO - Failu Any	CHEVER IS LONGER, FROM THE MAILING I consists of 37 CFR 1 rs IX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period re reply within the set or extended period for reply will, by stature properties of the period for reply will, by stature properties of the period for reply will, by stature properties of the period for reply will, by stature properties of the period for reply will, by stature properties of the period for reply will, by stature properties of the period for reply will, by stature properties of the period for reply will, by stature properties of the period for reply will, by stature properties of the period for reply will be peri	DATE OF THIS COMMUNION (1.136(a). In no event, however, may a red will apply and will expire SIX (6) MON (ate, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this ANDONED (35 U.S.C. § 133).	,			
Status							
1) 🏹	Responsive to communication(s) filed on 07.	July 2006					
2a)□		is action is non-final.					
3)□	ers, prosecution as to th	ne merits is					
٠,٠	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims		,				
	Claim(s) 13-52 is/are pending in the application	on					
7/23	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	Claim(s) is/are allowed.						
·	Claim(s) 13-52 is/are rejected.						
7)	Claim(s) is/are objected to.						
'=	Claim(s) are subject to restriction and/	or election requirement					
	· · · · · · · · · · · · · · · · · · ·	or creation requirement.					
Applicat	ion Papers	·					
9)[The specification is objected to by the Examin	ner.					
10)⊠	The drawing(s) filed on 30 July 2001 is/are: a	ı)⊠ accepted or b)⊡ objec	ted to by the Examiner.				
	Applicant may not request that any objection to the	e drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the corre	ction is required if the drawing	(s) is objected to. See 37 C	CFR ⁻ 1.121(d).			
11)[The oath or declaration is objected to by the E	Examiner. Note the attached	Office Action or form P	TO-152.			
Priority ı	under 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreig ☐ All b)☐ Some * c)☐ None of:	n priority under 35 U.S.C. §	119(a)-(d) or (f).				
	1. Certified copies of the priority documer	nts have been received.					
	2. Certified copies of the priority documer	nts have been received in A	pplication No				
	3. Copies of the certified copies of the price	ority documents have been	received in this Nationa	l Stage			
	application from the International Burea	au (PCT Rule 17.2(a)).					
* (See the attached detailed Office action for a lis	at of the certified copies not	received.				
Attachmen	nt(s)						
	ce of References Cited (PTO-892)		ummary (PTO-413)				
	ce of Draftsperson's Patent Drawing Review (PTO-948))/Mail Date Iformal Patent Application	·			
	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	6) Other:					
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DETAILED ACTION

Applicant's request for reconsideration of the finality of the rejection of the last
 Office action is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 13, 30 and 44 are rejected under 35 U.S.C. 102(e) as being anticipated by Ducharme (US 2002/0178278 A1).

Ducharme discloses a method and apparatus for providing graphical overlays in a multimedia system comprising the same integrated single chip system comprising: a first processor to receive digital video data and provide parsed video data (fig. 1, el. 28); a second processor coupled to the first processor to access the parsed video data, the second processor including a video transcoder (fig. 1, el. 30) as specified in claims 13, 30 and 44 (fig. 1, multimedia source 22 and packet of channel data 76).

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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4. Claims 30-35 and 37-52 are rejected under 35 U.S.C. 102(b) as being anticipated by Liu (EP 0 889 650 A2).

Liu discloses a method and apparatus for processing a bitstream comprising the same method comprising: receiving one or more packets having a video data payload and information related to the video data payload, wherein the video data payloads of the one or more packets represent a first channel of compressed video data having a characteristic represented by a first value (fig. 2, el. 112, col. 7. ln. 12-31); and transcoding (el. 114, 118, 130, 124) the video data payload of the one or more packets to generate a representation of a second channel of compressed video data having the characteristic represented by a second value (output 126 of el. 124) as specified in claims 30 and 44; wherein the characteristic is a compression factor (col. 7, In. 12-31) as specified in claims 31 and 45; wherein the characteristic is a scale factor (col. 12, ln. 42-47) as specified in claims 32 and 46; wherein transcoding the video data payloads comprises: decompressing the video data payload to generate a first intermediate data (fig. 2, el. 114-116); scaling the first intermediate data to generate a second intermediate data (el. 118-122); and compressing the second intermediate data to generate the representation of the second channel (el. 124-126) as specified in claims 33 and 47; wherein transcoding the video data payloads comprises: decompressing the video data payloads to generate a first intermediate data, wherein the first intermediate data is frequency domain data (fig. 3, output of 207 = DCT coefficients (frequency domain)); converting the first intermediate data to a second intermediate data (fig. 3, output of 209 = original image (time domain)), wherein the second intermediate data is

time domain data having the characteristic represented by the first value (the original image as being quantized by the original quantization step size Q1); converting the second intermediate data to a third intermediate data having the characteristic represented by the second value (output of el 209-bus 136-130-bus-140-309); and compressing the third intermediate data to generate the representation of the second channel (el. 307 with Q2-305-303-301-126) as specified in claims 34 and 48; wherein receiving the one or more packets includes: storing the video data payload of the one or more packets in a first memory (decoded bitstream processor 118) and storing the information associated with the video data payloads in a second memory (forwarding module 130 is used to stored and feed encoder bitstream information including motion vector to encoder 124 and col. 17, In. 19-26) as specified in claim 35; wherein video data payloads are transcoded based at least in part on the information associated with the video data payloads (re-used bitstream parameter: col. 7, In. 56- col. 8, In. 1 or col. 17, In. 19-26) as specified in claims 37 and 49; wherein the information associated with a video data payload indicates that the digital data payload includes one or more of video time stamp information, picture configuration information, slice information, macroblock information, motion vector information, quantizer matrix information, or specific picture location information (re-used bitstream parameter: col. 7, ln. 56- col. 8, In. 1 or col. 17, In. 19-26) as specified in claims 38 and 50; wherein receiving the one or more packets and transcoding the video data payloads support a real-time play back of the representation of the second channel (col. 22, In. 12-18) as specified in claim 39; further comprising: providing the representation of the second channel of compressed

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video data for reception by at least one multimedia device (multimedia device = television, radio, print and the internet, col. 1, ln. 22-40) as specified in claim 40; further comprising: receiving, at a first data processor, a data stream including video data at a first data processor; and parsing, at the first data processor, the data stream to identify video data associated with a first channel; and packetizing, at the first data processor, the video data associated with the first channel to generate the one or more packets (fig. 2, el. 112-114) as specified in claims 41 and 51; receiving the one or more packets and transcoding the video data payloads are performed at a second data processor (el. 122-126) as specified in claim 42; wherein the first data processor includes a general purpose processor and the second data processor includes a video processor (el. 114 and 126) as specified in claims 43 and 52.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 13-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al, in view of Ducharme.

Wang et al discloses a dynamic bit allocation comprising the same integrated single chip system comprising: processor to receive digital video data and provide parsed video data; processor to access the parsed video data, the processor including a Art Unit: 2621

video transcoder (figs. 3 and 4) as specified in claim 13; wherein the first processor is a general purpose processor (fig. 1, el. 155) as specified in claim 14; wherein the second processor further includes: a data decompression portion; a scalar; and a data compression portion (fig. 3 and fig. 4, el. 400, 225, 230, 450) as specified in claim 15; wherein the decompression portion includes a portion to perform a frequency domain to a time domain transform (IDCT) as specified in claims 16-17; wherein the decompression portion includes a portion to perform a de-quantization of data (fig. 4, el. 420) as specified in claim 18; wherein the decompression portion includes a portion to perform a DeZigZag of data; a buffered motion predictor (fig. 4, el. 410) as specified in claims 19 and 23-24; wherein the decompression portion includes a motion compensation portion (fig. 4, el. 455) as specified in claims 20-22; wherein the compression portion further includes a portion to perform a time domain to a frequency domain transform (el. 222) as specified in claim 25-26; wherein the compression portion includes a motion vector generator (fig. 4output of el. 220 to el. 230, also fig. 2, el. 220 and MV) as specified in claim 27; and wherein the motion vector generator includes a buffered motion predictor (el. 250, 255) as specified in claim 28; and the second processor is coupled to the first processor through a memory controller and a sequencer (fig. 1 should contain a memory controller and a sequencer to differentiate, route different video signals to their respective decoders) as specified in claim 29. It is noted that Wang et al does not particularly disclose that processor to receive digital video data and provide parsed video data is a first processor and is different than the second processor, which accesses the parsed video data, the processor including a

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video transcoder. Ducharme teaches that a separate module is used to parse incoming multimedia sources, which comprises a plurality of different video bitstream and a second module coupled to the first module accesses the parsed data and the second module is also a transcoding module. Therefore, it would have been obvious to one of ordinary skilled in the art at the time the invention was made to modify the system of Wang et al by separating the parsing and transcoding and using two separate modules to handle these two separate tasks as taught by Ducharme. Doing so would help to simplify the transcoding process by separating the multiple different video bitstreams to individual video bitstream before transcoding.

7. Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Liu.

As applied to claim 35 above, it is noted that Liu does not particularly disclose that the buffer memories as used to hold video data payloads and associated video information are the same type of buffer memory nor they are of the different type of memory; however, in the absence of any contradictory teachings, it would have been obvious to one of ordinary skilled in the art at the time the invention was made to construct the first memory and the second memory as of the same type of memory for the sake of simplicity.

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- a. Liu et al (US 6,904,094) discloses a processing mode selection for channels in a video multi-processor system.

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b. Liang et al (US 2002/0196853 A1) discloses a reduced resolution video decompression.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nhon T. Diep whose telephone number is 571-272 The examiner can normally be reached on m-f.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ND 9/18/2006 NHON DIEP
PRIMARY EXAMINER